

UNITED ST

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/092,333	-	03/06/2002	Imed Gharsalli	01-484	9000	
719	7590	01/25/2005		EXAM	INER	
CATER	PILLAR II	NC.	NGUYEN, KIMNHUNG T			
100 N.E.	ADAMS S'	TREET				
PATENT	Γ DEPT.		ART UNIT	PAPER NUMBER		
PEORIA	, IL 61629	06490	2674			

DATE MAILED: 01/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/092,333	GHARSALLI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Kimnhung Nguyen	2674				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet with t	the correspondence address				
THE - Exte after - If the - If NO - Failt Any	MAILING DATE OF THIS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IN THE PROPERTY OF THE PROPERTY	N. 1.136(a). In no event, however, may a reply reply within the statutory minimum of thirty (30 iod will apply and will expire SIX (6) MONTHS tute, cause the application to become ABANI	be timely filed O) days will be considered timely. I from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 15	5 March 2004					
		his action is non-final.					
	· /—		prosecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims						
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-15 is/are pending in the application 4a) Of the above claim(s) is/are with declaim(s) is/are allowed. Claim(s) 1-15 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.					
Applicat	ion Papers						
9)[The specification is objected to by the Exami	iner.					
10)[10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the	he drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the	Examiner. Note the attached Of	ffice Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a light	ents have been received. ents have been received in Appli riority documents have been rec eau (PCT Rule 17.2(a)).	cation No eived in this National Stage				
Attachmen	•	_					
	e of References Cited (PTO-892)	4) Interview Sumr					
3) 🔲 Infort	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date		ail Date nal Patent Application (PTO-152)				

Art Unit: 2674

DETAILED ACTION

This Application has been examined. The claims 1-15 are pending. The examination results are as following.

Claim Rejections - 35 USC § 103

1. Claims 1, 4-8, 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cobo et al. (US 6,305,162 cited by Applicant) in view of Nagao (US 6,532,003).

Regarding claims 1, and 8, Cobo et al. discloses in figure 1, a method for controlling a parameter of at least one signal including the steps of: receiving a desired command signal from at least one control input (20); activating a desired command as function of the desired command signal; and controlling a parameter of a signal from the at least one other control input (22) in response to the potential condition; and delivering the desired command signal to at least one output (see col. 2, lines 14-20). However, Cobo et al. does not disclose a determining a potential condition for receiving an undesired command signal from at least one other control input. Nagao discloses in figure 1, an undesired command signal from at least one other control input (see the control part 8, detects false coordinate data, therefore false coordinate data will not be executed or irrelevant program (see column 3, lines 9-15). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the undesired command signal (irrelevant program) as taught by Nagao into the system of Cobo et al. because this will not be problem such as an offset of a key entry position or a position of the cursor and execution of an irrelevant program).

Art Unit: 2674

Regarding claims 4-7 and 12-14, Cobo et al. discloses wherein receiving a desired command signal includes the step of receiving command signal an automated program (see fig. 2, see joystick associate with memory, see col. 4, lines 57-59); command signal from a proportional output device; the signal includes the step of increasing an amount of deadband of the at least one other control input (see fig. 7-9, see col. 4, lines 10-11)

Cobo et al. also discloses the plurality of control inputs (28, 30, see fig. 1), includes an automated program (see figure 2).

2. Claims 2-3 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cobo et al. (US 6,305,162) and Nagao (US patent 6,532,0030) and in view of Alexander et al. (US 2003/0107502).

Cobo et al. and Nagao discloses a method or apparatus for controlling a parameter of at least one signal as discussed above. However, Cobo et al. and Nagao does not disclose the step of a receiving a desired command signal from at least one axis of joystick, or level and wherein the joystick includes a plurality of axes. Alexander et al. disclose a joystick controller having shaft (17 or lever 17), and the joystick includes a plurality of axes (see first axis, second axis and third axis, see paragraphs 0007-0011). It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teachings of the joystick includes a plurality of axes as taught by Alexander into the apparatus or method for controlling a parameter of at least one signal of Cobo et

Art Unit: 2674

al. and Nagao because this would be rotated about its own longitudinal axis to effect the third degree of control (see paragraph 0014).

3. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cobo et al. (US 6,305,162) and Nagao (US 6,532,003) as applied to claim 8 above, and further in view of Cobo et al. (US 5,737, 993 cited by Applicant).

Cobo et al. (162) and Nagao disclose every feature of the claimed invention, excluding the controller includes at least one of a deadband control and gain control. Cobo et al. (993) discloses the controller includes at least one of a deadband control and gain control (see col. 5, lines 64-67 and col. 6, lines 1-28). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the deadband control and gain control as taught by Cobo et al. (993) into the system of Cobo et al. (162) and Nagao because this would provide to maximally linearize the function of the hydraulic valves and provide the overall control system with a gain of incremental output.

Response To Arguments

- 4. Applicant's arguments with respect to claim 1 have been considered but are most in view of the new ground(s) of rejection.
- 5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2674

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A HJERPE can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen January 24, 2005

ALEXANDER EISEN